

INTERNATIONAL SEARCH REPORT

 Intern Application No
 PCT/IE2004/000136

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B62D53/02 B62D12/00 B60G3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B62D B60G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 099 733 A (AHONEN AHTI ILMARI) 11 July 1978 (1978-07-11)	1
Y	column 3, line 25 - column 4, line 45; figures 1,2	2-15,17, 30-47
Y	-----	
Y	EP 0 287 278 A (TECHNOLOGY INVESTMENTS LIMITED) 19 October 1988 (1988-10-19)	2-12, 30-47
A	column 5, paragraph 2; figures column 6, line 34 - line 41	1,13
Y	-----	
Y	US 2 321 832 A (LEIGHTON JOHN W) 15 June 1943 (1943-06-15)	13-15
	page 2, left-hand column, line 8 - line 13; figures 1,2,5	
	page 1, right-hand column, line 26 - line 28	

	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 January 2005

Date of mailing of the international search report

04 APR 2005

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Torsius, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IE2004/000136

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 5 820 150 A (ARCHER DAVID W ET AL) 13 October 1998 (1998-10-13) column 6, line 45 - line 51; figures 2-4	17 2-7, 9-13, 30-47
A	----- FR 1 493 241 A (LOCKHEED AIRCRAFT CORP) 25 August 1967 (1967-08-25) page 4, left-hand column, line 47 - right-hand column, line 41; figures 2-5,11 page 5, right-hand column, line 22 - page 6, left-hand column, line 3	1,30,37, 41,45
A	----- EP 1 153 772 A (BAMFORD EXCAVATORS LTD) 14 November 2001 (2001-11-14) paragraph [0032]; figures 1,2 paragraph [0021] - paragraph [0026]	1,30,37, 41,45
A	----- US 2 163 981 A (LAWRENCE NORMAN E) 27 June 1939 (1939-06-27) page 2, left-hand column, line 24 - line 35; figures 1,2,5,7 page 1, right-hand column, line 4 - line 7	8,13-15
A	----- US 2 278 303 A (PAUL BLASER) 31 March 1942 (1942-03-31) figures	1,8, 13-15
A	----- FR 2 632 265 A (NATIONALE COOPERATIEVE AAN VER) 8 December 1989 (1989-12-08) figures 1,2,6	1,30,37, 41,45
A	----- DE 20 34 995 A (GERHARD RÜDEL) 20 January 1972 (1972-01-20) page 2, paragraph 3	1,30,37, 41,45
A	----- US 3 446 175 A (BOEHLER GABRIEL D ET AL) 27 May 1969 (1969-05-27)	1
A	----- FR 2 221 294 A (BRANDO GERARD) 11 October 1974 (1974-10-11)	8
A	----- FR 2 148 909 A (FRANGECO A N F) 23 March 1973 (1973-03-23) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter Application No
PCT/IE2004/000136

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4099733	A	11-07-1978	FI 760992 A BR 7702291 A CA 1119639 A1 DE 2715247 A1 FR 2348095 A1 SE 436410 B SE 7704106 A	13-10-1977 17-01-1978 09-03-1982 20-10-1977 10-11-1977 10-12-1984 13-10-1977
EP 0287278	A	19-10-1988	IE 62484 B1 AT 91255 T AU 1434288 A DE 3882161 D1 DE 3882161 T2 EP 0287278 A1 ES 2043812 T3 US 4848789 A	08-02-1995 15-07-1993 13-10-1988 12-08-1993 14-10-1993 19-10-1988 01-01-1994 18-07-1989
US 2321832	A	15-06-1943	NONE	
US 5820150	A	13-10-1998	US 5538274 A US 6105984 A US 6516914 B1 CA 2121181 A1 EP 0706904 A1 GB 2277304 A ,B	23-07-1996 22-08-2000 11-02-2003 15-10-1994 17-04-1996 26-10-1994
FR 1493241	A	25-08-1967	US 3414072 A AT 291010 B BE 687008 A CH 463970 A DE 1580295 A1 GB 1124190 A NL 6613048 A ,B SE 334100 B	03-12-1968 25-06-1971 16-03-1967 15-10-1968 20-08-1970 21-08-1968 17-03-1967 05-04-1971
EP 1153772	A	14-11-2001	GB 2362141 A CA 2347347 A1 EP 1153772 A2 JP 2002002248 A US 2001042654 A1	14-11-2001 13-11-2001 14-11-2001 08-01-2002 22-11-2001
US 2163981	A	27-06-1939	NONE	
US 2278303	A	31-03-1942	NONE	
FR 2632265	A	08-12-1989	NL 8801409 A FR 2632265 A1	02-01-1990 08-12-1989
DE 2034995	A	20-01-1972	DE 2034995 A1	20-01-1972
US 3446175	A	27-05-1969	NONE	
FR 2221294	A	11-10-1974	FR 2221294 A2 DE 1755997 A1 FR 95073 E FR 1544706 A GB 1222850 A OA 4633 A	11-10-1974 30-12-1971 11-05-1970 17-02-1971 31-07-1980

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interr

il Application No

PCT/IE2004/000136

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2221294	A	US 3591198 A	06-07-1971
FR 2148909	A	23-03-1973 FR 2148909 A5	23-03-1973

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IE2004/000136

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15, 17, 30-47

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15,17,30-47

Articulated dump truck vehicle according to claim 1 with features connected to the arrangement of the front suspension parts

2. claim: 16

Articulated dump truck vehicle according to claim 1 with features connected to the tipping container arrangement

3. claims: 18-21

Articulated dump truck vehicle according to claim 1 with features connected to the front wheels being steerable too.

4. claims: 22-29

Articulated dump truck vehicle according to claim 1 with features connected to the control of the suspension system of the vehicle
